Abstract of the Disclosure

A clock divider for a DLL circuit can reduce the power consumption by reducing the number of times of phase comparison in the DLL circuit when a synchronous memory device is in a power-down mode. The clock divider includes M dividers connected in series, and a power-down controller for receiving an output signal of the (M-1)-th divider and an output signal of the M-th divider and selectively outputting output signals. The respective dividers divide frequency of a clock signal inputted to the respective dividers into 1/2, and the output signal of the power-down controller has a frequency obtained by dividing the frequency of the clock signal inputted to the first divider into $1/2^{M}$ or $1/2^{(M-1)}$ in accordance with a logic level of a control signal. 15 The output signal of the third divider is selected in the same manner as the conventional clock divider in the case that the memory device is in a non-power-down mode, but the output signal of the fourth divider is selected in the case that the memory device is in the power-down mode in which the power consumption of the memory device is reduced, thereby reducing the current loss of the DLL circuit.